SEQUENCE LISTING

<110>	Dear,	Neil	т.												
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					cgg Arg											355	
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Leu	Leu	Tyr	Arg 120	Val	gtg Val	Pro	Arg	Gly 125	Gln	Ser	Phe	Lys	Lys 130	Asn	Tyr	499	
Ala	Gly	Ile 135	Phe	His	ttt Phe	Gln	Ile 140	Trp	Gln	Phe	Gly	Gln 145	Trp	Val	Asn	547	
Val	Val 150	Val	Asp	Asp	cgg Arg	Leu 155	Pro	Thr	Lys	Asn	Asp 160	Lys	Leu	Val	Phe	595	
Val 165	His	Ser	Thr	Glu	cgc Arg 170	Ser	Glu	Phe	Trp	Ser 175	Ala	Leu	Leu	Glu	Lys 180	643	
Ala	Tyr	Ala	Lys	Leu 185	agt Ser gag	Gly	Ser	Tyr	Glu 190	Ala	Leu	Ser	Gly	Gly 195	Ser	691	
Thr	Met	Glu	Gly 200	Leu	Glu	Asp	Phe	Thr 205	Gly	Gly	Val	Ala	Gln 210	Ser	Phe	739 787	
Gln	Leu	Gln 215	Arg	Pro	Pro	Gln	Asn 220	Leu	Leu	Arg	Leu	Leu 225	Arg	Lys	Ala	835	
Val	Glu 230	Arg	Ser	Ser	Leu	Met 235	Gly	Cys	Ser	Ile	Glu 240	Val	Thr	Ser	Asp	883	
Ser 245	Glu	Leu	Glu	Ser	Met 250 ctt	Thr	Asp	Lys	Met	Leu 255	Val	Arg	Gly	His	Ala 260	931	
Tyr	Ser	Val	Thr	Gly 265	Leu	Gln	Asp	Val	His 270	Tyr	Arg	Gly	Lys	Met 275	Glu	979	
Thr	Leu	Ile	Arg 280	Val	Arg	Asn	Pro	Trp 285	Gly	Arg	Ile	Glu	Trp 290	Asn	gga Gly		

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cct Pro	gag Glu 390	gly ggg	gat Asp	gac Asp	cca Pro	gag Glu 395	gat Asp	gac Asp	gca Ala	gag Glu	ggc Gly 400	aat Asn	gtt Val	gtg Val	gtc Val	1315	
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cgg Arg	gag Glu 470	gtg Val	agc Ser	agc Ser	caa Gln	ctc Leu 475	cgg Arg	ctg Leu	cct Pro	ccg Pro	999 Gly 480	gaa Glu	tat Tyr	atc Ile	att Ile	1555	
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tat	gct	gag	caa	ctc	caa	gag	gaa	aag	gtc	tct	gag	gat	gac	atg	gac	1699	

. المحمد . مستثل

Tyr	Ala	Glu	Gln 520	Leu	Gln	Glu	Glu	Lys 525	Val	Ser	Glu	Asp	Asp 530		Asp	
cag Gln	gac Asp	ttc Phe 535	cta Leu	cat His	ttg Leu	ttt Phe	aag Lys 540	ata Ile	gtg Val	gca Ala	gga Gly	gag Glu 545	ggc	aag Lys	gag Glu	1747
ata Ile	999 Gly 550	gtg Val	tat Tyr	gag Glu	ctc Leu	cag Gln 555	agg Arg	ctg Leu	ctc Leu	aac Asn	agg Arg 560	atg Met	gcc Ala	atc Ile	aaa Lys	1795
ttc Phe 565	aaa Lys	agc Ser	ttc Phe	aag Lys	acc Thr 570	aag Lys	ggc Gly	ttt Phe	ggc Gly	ctg Leu 575	gat Asp	gct Ala	tgc Cys	cgc Arg	tgc Cys 580	1843
atg Met	atc Ile	aac Asn	ctc Leu	atg Met 585	gat Asp	aaa Lys	gat Asp	ggc Gly	tct Ser 590	ggc Gly	aag Lys	ctg Leu	G1y 999	ctt Leu 595	cta Leu	1891
gag Glu	ttc Phe	aag Lys	atc Ile 600	ctg Leu	tgg Trp	aaa Lys	aaa Lys	ctc Leu 605	aag Lys	aaa Lys	tgg Trp	atg Met	gac Asp 610	atc Ile	ttc Phe	1939
aga Arg	gag Glu	tgt Cys 615	gac Asp	cag Gln	gac Asp	cat His	tca Ser 620	ggc Gly	acc Thr	ttg Leu	aac Asn	tcc Ser 625	tat Tyr	gag Glu	atg Met	1987
cgc Arg	ctg Leu 630	gtt Val	att Ile	gag Glu	aaa Lys	gca Ala 635	ggc Gly	atc Ile	aag Lys	ctg Leu	aac Asn 640	aac Asn	aag Lys	gta Val	atg Met	2035
cag Gln 645	gtc Val	ctg Leu	gtg Val	gcc Ala	agg Arg 650	tat Tyr	gca Ala	gat Asp	gat Asp	gac Asp 655	ctg Leu	atc Ile	ata Ile	gac Asp	ttt Phe 660	2083
gac Asp	agc Ser	ttc Phe	atc Ile	agc Ser 665	tgt Cys	ttc Phe	ctg Leu	agg Arg	cta Leu 670	aag Lys	acc Thr	atg Met	ttc Phe	aca Thr 675	ttc Phe	2131
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gaa Glu	GIII	tgg Trp 695	ctg Leu	cag Gln	atg Met	acc Thr	atg Met 700	tgg Trp	gga Gly	tag	aggc	gctg	ta g	gagc	ctggt	2232
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Asn Pro Leu Phe Ile Met Asp Gly Ile Ser Pro Thr Asp Ile Cys Gln 85 90 95

Gly Ile Leu Gly Asp Cys Trp Leu Leu Ala Ala Ile Gly Ser Leu Thr 100 105 110

Thr Cys Pro Lys Leu Leu Tyr Arg Val Val Pro Arg Gly Gln Ser Phe 115 120 125

Lys Lys Asn Tyr Ala Gly Ile Phe His Phe Gln Ile Trp Gln Phe Gly 130 135 140

Gln Trp Val Asn Val Val Val Asp Asp Arg Leu Pro Thr Lys Asn Asp 145 150 155 160

Lys Leu Val Phe Val His Ser Thr Glu Arg Ser Glu Phe Trp Ser Ala 165 170 175

Leu Leu Glu Lys Ala Tyr Ala Lys Leu Ser Gly Ser Tyr Glu Ala Leu 180 185 190

Ser Gly Gly Ser Thr Met Glu Gly Leu Glu Asp Phe Thr Gly Gly Val 195 200 205

Ala Gln Ser Phe Gln Leu Gln Arg Pro Pro Gln Asn Leu Leu Arg Leu 210 215 220

Leu Arg Lys Ala Val Glu Arg Ser Ser Leu Met Gly Cys Ser Ile Glu 225 230 235 240

Val Thr Ser Asp Ser Glu Leu Glu Ser Met Thr Asp Lys Met Leu Val 245 250 255

Arg Gly His Ala Tyr Ser Val Thr Gly Leu Gln Asp Val His Tyr Arg 260 265 270

Gly Lys Met Glu Thr Leu Ile Arg Val Arg Asn Pro Trp Gly Arg Ile 275 280 285

Glu Trp Asn Gly Ala Trp Ser Asp Ser Ala Arg Glu Trp Glu Glu Val 290 295 300 Ala Ser Asp Ile Gln Met Gln Leu Leu His Lys Thr Glu Asp Gly Glu 305 310 315 320

Phe Trp Met Ser Tyr Gln Asp Phe Leu Asn Asn Phe Thr Leu Leu Glu 325 330 335

Ile Cys Asn Leu Thr Pro Asp Thr Leu Ser Gly Asp Tyr Lys Ser Tyr 340 345 350

Trp His Thr Thr Phe Tyr Glu Gly Ser Trp Arg Arg Gly Ser Ser Ala 355 360 365

Gly Gly Cys Arg Asn His Pro Gly Thr Phe Trp Thr Asn Pro Gln Phe 370 380

Lys Ile Ser Leu Pro Glu Gly Asp Asp Pro Glu Asp Asp Ala Glu Gly 385 390 395 400

Asn Val Val Cys Thr Cys Leu Val Ala Leu Met Gln Lys Asn Trp
405 410 415

Arg His Ala Arg Gln Gln Gly Ala Gln Leu Gln Thr Ile Gly Phe Val 420 425 430

Leu Tyr Ala Val Pro Lys Glu Phe Gln Asn Ile Gln Asp Val His Leu 435 440 445

Lys Lys Glu Phe Phe Thr Lys Tyr Gln Asp His Gly Phe Ser Glu Ile 450 455 460

Phe Thr Asn Ser Arg Glu Val Ser Ser Gln Leu Arg Leu Pro Pro Gly 475 480

Glu Tyr Ile Ile Ile Pro Ser Thr Phe Glu Pro His Arg Asp Ala Asp 485 490 495

Phe Leu Leu Arg Val Phe Thr Glu Lys His Ser Glu Ser Trp Glu Leu 500 505 510

Asp Glu Val Asn Tyr Ala Glu Gln Leu Gln Glu Glu Lys Val Ser Glu 515 520 525

Asp Asp Met Asp Gln Asp Phe Leu His Leu Phe Lys Ile Val Ala Gly 530 540

Glu Gly Lys Glu Ile Gly Val Tyr Glu Leu Gln Arg Leu Leu Asn Arg 545 550 555 560

Met Ala Ile Lys Phe Lys Ser Phe Lys Thr Lys Gly Phe Gly Leu Asp 565 570 575

Ala Cys Arg Cys Met Ile Asn Leu Met Asp Lys Asp Gly Ser Gly Lys 580 590

Leu Gly Leu Leu Glu Phe Lys Ile Leu Trp Lys Lys Leu Lys Lys Trp 595 600 605

Met Asp Ile Phe Arg Glu Cys Asp Gln Asp His Ser Gly Thr Leu Asn 610 615 620

Ser Tyr Glu Met Arg Leu Val Ile Glu Lys Ala Gly Ile Lys Leu Asn 625 630 635 640

Asn Lys Val Met Gln Val Leu Val Ala Arg Tyr Ala Asp Asp Leu 645 650 655

Ile Ile Asp Phe Asp Ser Phe Ile Ser Cys Phe Leu Arg Leu Lys Thr 660 665 670

Met Phe Thr Phe Phe Leu Thr Met Asp Pro Lys Asn Thr Gly His Ile 675 680 685

Cys Leu Ser Leu Glu Gln Trp Leu Gln Met Thr Met Trp Gly 690 695 700